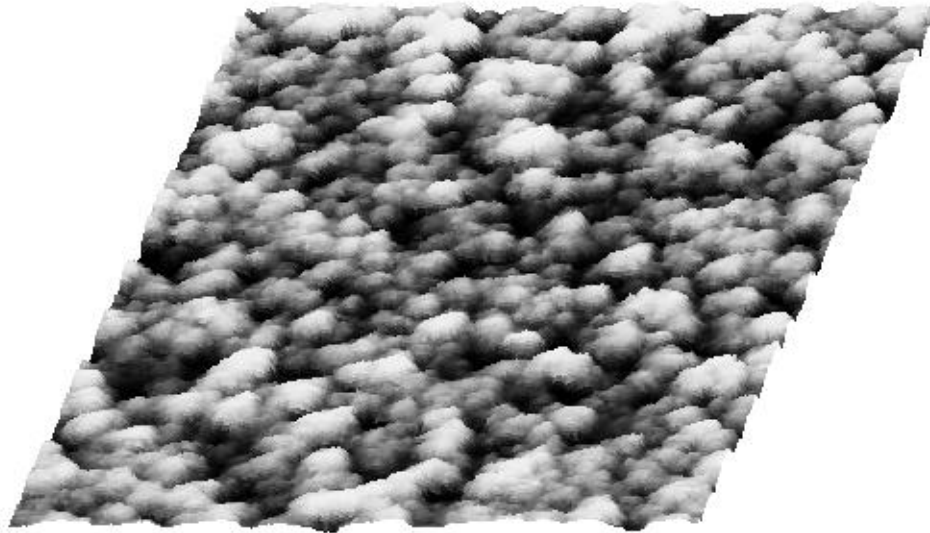
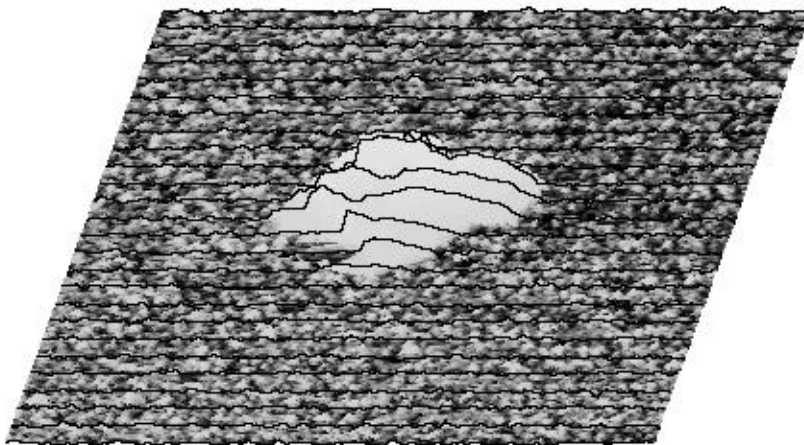


Electronic Nano-Device onto Amorphous Silicon

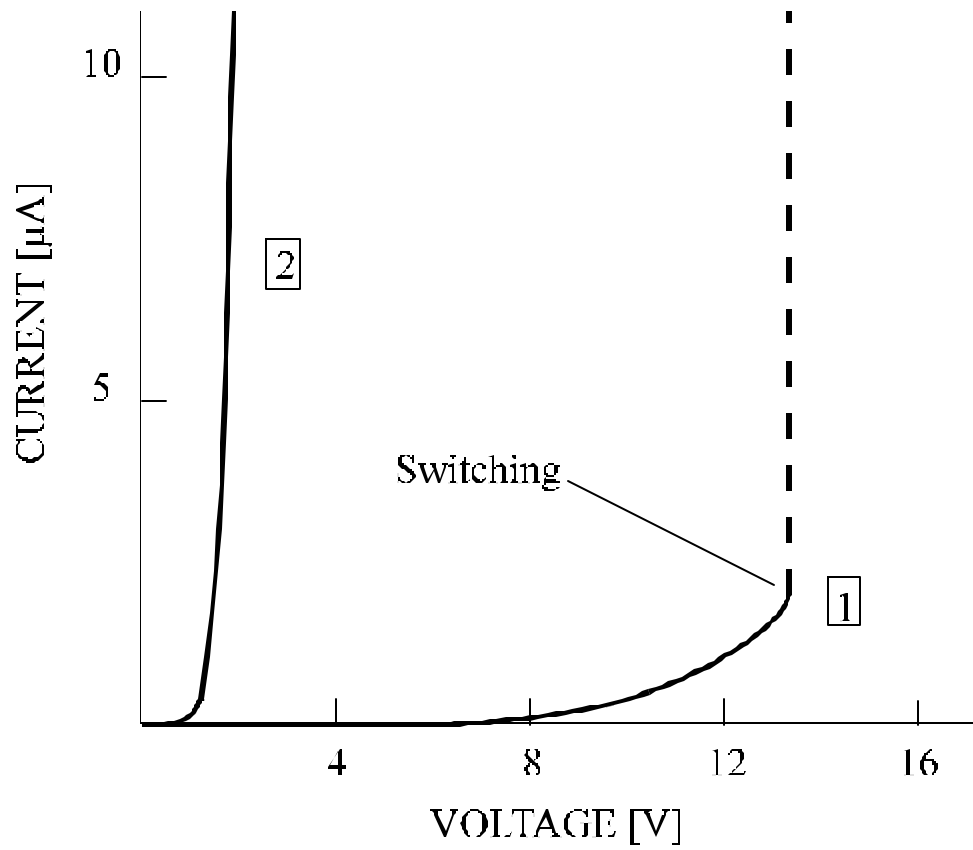
- a -Si:H(P)/Si p - n Heterojunction
- Switching Nano-Device



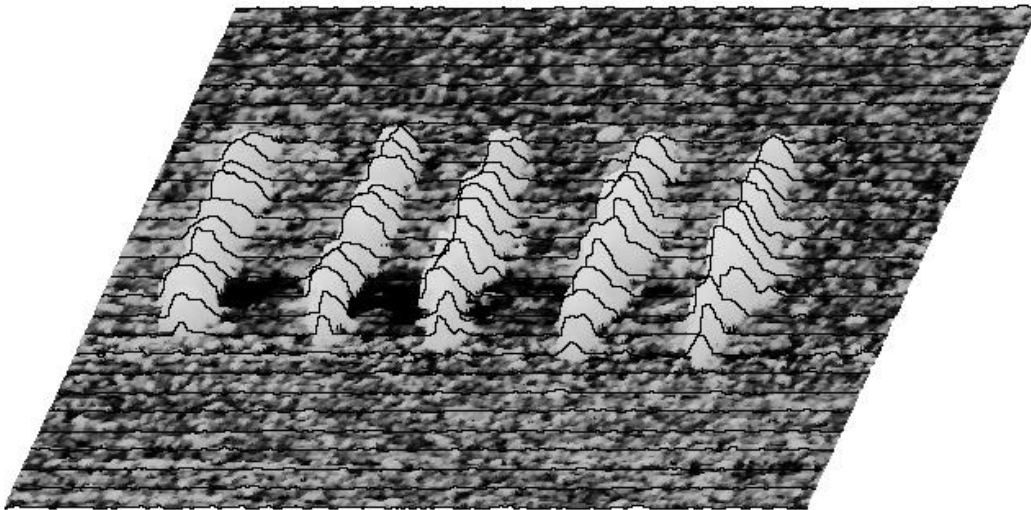
STM Image of the a -Si:H(P)/Si Surface before STM-Induced Modification.



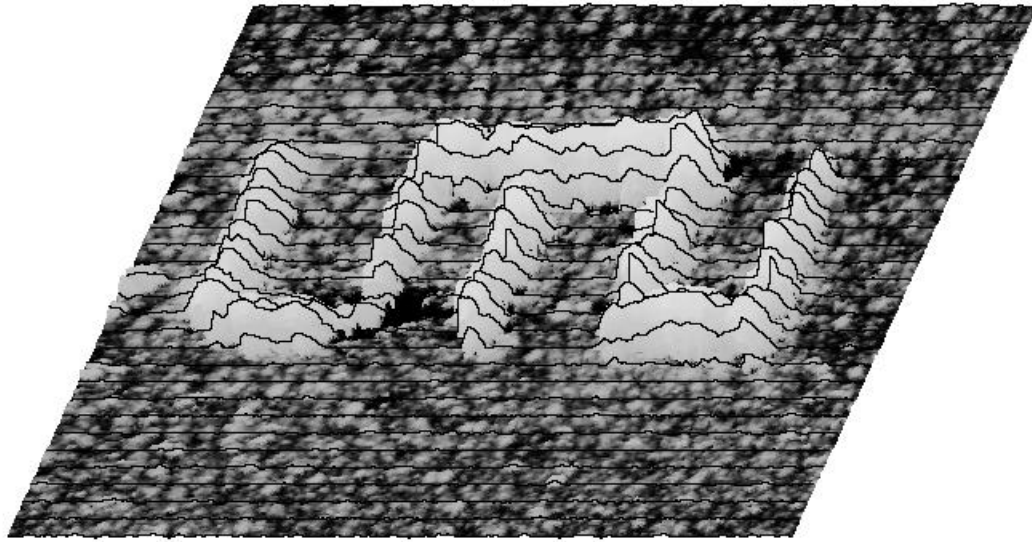
STM Image of the a -Si:H(P)/Si Surface after STM-Induced Modification.
A Nano-Device was Formed at this Location.



Current-Voltage Characteristic for the Nano-Device obtained by STM.



STM-“Written” Lines.



3-D STM Image of the Logo of the Ludwig Maximilians University (“LMU”) “Written” into a 60-nm-thick *a*-Si:H(P) Film.
 (“writing” conditions: $V_{\text{tip}} = -10\text{V}$, $I_t = 300\text{nA}$, writing speed: 20nm/s)



3-D STM Image of the Logo of the Technical University of Munich (“TUM”) “Written” into a 30-nm-thick *a*-Si:H(P) Film.
 (“writing” conditions: $V_{\text{tip}} = -9\text{V}$, $I_t = 14.7\text{nA}$, writing speed: 23nm/s)